

## **ABSTRACT**

An organic light-emitting diode display device according to the present invention includes a metal electrode layer, an organic light-emitting diode layer, a phase transforming film and a polarizer.

- 5 The phase transforming film has a retardation state of a quarter-wave phase difference that can be converted to have a retardation state with zero phase difference. The arrangement of the phase transforming film and polarizer can eliminate interference from reflecting light off the organic light-emitting diode layer when the
- 10 organic light-emitting diode layer itself emits light, and can have a function of converting the organic light-emitting diode display device to be a mirror when the organic light-emitting diode layer does not emit light.